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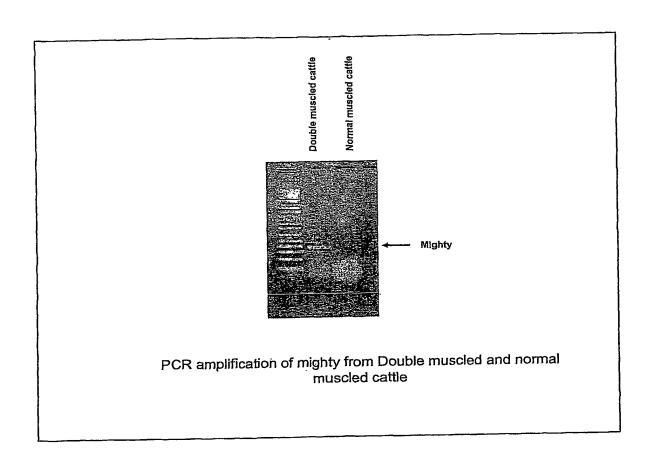
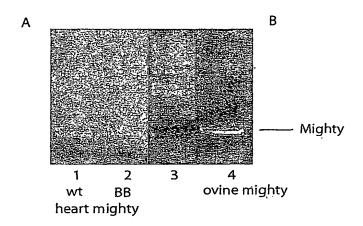


FIGURE 1

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Lane 1 PCR amplification of mighty from wild type bovine heart Lane 2 PCR amplification of mighty from Belgian Blue bovine heart Lane 3 1 kb plus DNA ladder Lane 4 PCR amplification of mighty from ovine skeletal muscle

FIGURE 2

 ${\tt CCACATTCACTGTGCAAGTCGTGGGGAAATA} {\tt CAGATGAATAAAGGCTTCCTTGTTATTCTCAAGGAATGTATG}$ GTTTTGAAGCACAGTTAGACATATATTCAAATTACAGCTTCCTCCTTTAAAACACTAATATTCCAAGGCACAC ${\tt TCAATGTTTAAAGGATCACAG} {\tt AGTGACTACCA} {\tt AAGCACGTAGCAAAACCCTACTAAGAGAGGTGTGTTTAAA}$ ATGACTACCCAAGGGACATACTTTTCAAGTCTTCTAATCGTTCACTTTGGATCTGTTTATACCACAAGAAAAC AATTTACTTGATGCTCTTAGGTCCCTTAAAAAATAACCATCCTAAAAAATAACCATCCTAGATGTCCTTTCATGTCCTTTGCCTTTTA ETGAACATAGAAACAGCCATGCAAGCGGTCTTAAAGGCTT*TATTAGATGATT*GTTTCCTAATAAAGTCAT GACAGTCTACCTTTGGAATTAAAGTGATACACAAAATGATGGTCTGTGTCCTCTGGTGAACTGGTTCC TATTCATCATGACTATGGTTTCATTTTTTTTTAGCCTTCAAGAAGCTCAGAACTGAATTTTAA TTAGTTTAAACCACGTTACATCTATATTGACAATAAATGTGCTAAAAATAAACTTAACATGGGTAATGTGCCTA GGGAGGCTTGAATCCCAATATGGCAAAACAAACAGAAAACCAGCAATTTGGTATGCTGTGTCTTATATTT TACAGAAATAAATGTGAAAGTATATGACCTATGTTATGATCTTTAAAGAGTTTGTAGAAACGGAAGAGGGCTC TGCCTTTATTGTCTAACCCC**CAAGTG**TGTTGAAGT_ACTGTGAC CTAAAATTTGGACTGTTCTAGAAAAATCTGTTACAGAGATAATGTTAAAGCCAGATTACAGGAATCACAGCCA CTAATATACAAATAATTACAGAAAGGCTTTGAATGTGGAGGTGTTGTTCTGATGACTCTATTGATGTATTTGA AAGCACTGGAGTTACTCCCCAGGAAAATTACAACCAGAGTTCCCTAAAGCAGAACCTCCCTGTTTTCTATT**CA** TTTGCTGAATATCAAAAGCATTTTCCAGCCAACAGTACGGCA TCTGAGTTGCCAAGTCGGATGAGGAAGC**CAACTG CAAAT ACCTAGG**GGAAGTTCCTAACACCCTGGTA ATCCTTTTTTGCGTAACACATATCCATTTAGTGATCCGATTAATGGCCGGGTC CATTTGTAACACACCTCCCCTTCCAATTTTGCC CAGCGTTCGTGGATTAAATAAAGTCTATCC TTAGATAACCCGGTTATGTTTGTGAAGATTTCCTGGGACTCAAGACAAAATCCTTTGATAACCCTT TCTTTTATCGGTCACGCGGCCAAGGGAACCCGGGTCTCCCAGGGTCTC GGGCGGGGGGGGGTTGTTGCTAGGCGACCACGCTCTCCGCCCAGACCGGCCTACTTCTTCCGCAGGGGGCG CCATGGGCCGAGCCCAGGCTCGCGGGCCTC egeccacecceteacetcacagegegegegecegecteccegeteccegeteccegeceategece GCTTGGCTTGGCAGCCGTAGCTGAAGAGTTGGATC

Various transcription factor binding sites:



FIGURE 3A

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CCACATTCACTGTGCAAGTCGTGGGGAAATACAGATGAATAAAGGCTTCCTTGTTATTCTCAAGGAATGTATG GTTTTGAAGCACAGTTAGACATATATTCAAATTACAGCTTCCTCCTTTAAAACACTAATATTCCAAGGCACAC TCAATGTTTTAAAGGATCACAGAGTGACTACCAAAGCACGTAGCAAAACCCTACTAAGAGAGGTGTGTTTAAA ATGACTACCCAAGGGACATACTTTTCAAGTCTTCTAATCGTTCACTTTGGATCTGTTTATACCAAGAAA ACAATTTACTTGATGCTCTTAGGTCCCCTTAAAAAATAACCATCGTGAAGTGGCTTTTCATGTCCTTGGCTTT TATTGAACATAGAAACAGCCATGCAAGCGGTCTTAAAGGCTTTATTACATCATTGTTTCCTAATAAAGTCATG ACAGTCTACCTTTGGAATTAAAGTGATACACAAAATGATGGTCTGTGTCCTCTGGTGAACTGGTTCCATTCAG AHAACACCTATICATCATGACTATGGTTTCATTTTTCTTTAGCCTTCAAGAAGCTCAGAACTGAATTTTAAAT TAGTTTAAACCACGTTACATCTATATTGACAATAAATGTGCTAAAATAAACTTAACATGGGTAATGTGCCTAG GGAGGCTTGAATCCCAATATGGCAAAACAAACAGAAAACCAGCAATTTGGTATGCTGTCTTATATTTT ACAGAAATAAATGTGAAAGTATATGACCTATGTTATGATCTTTAAAGAGTTTGTAGAAACGGAAGAGGACTCA ATGCCTTTATTGTCTAACCCCAAGTGTGTTGAAGT ACTGTGACAGCCATCTTGGCAATTAGAAATGAGTA TCTAAAATTTGGACTGTTCTAGAAAAATCTGTTACAGAGATAATGTTAAAGCCAGATTACAGGAATCACAGCC ACTAATATACAAATAATTACAGAAAGGCTTTGAATGTGGAGGTGTTGTTCTGATGACTCTATTGATGTATTTG AAAGCACTGGAGTTACTCCCCAGGAAAATTACAACCAGAGTTCCCTAAAGCAGAACCTCCCTGTTTTCTATTC ATTTGCTGAATATCAAAAGCATTTTCCAGCCAACAGTACGGCAGAGAATCTCGATTGACCCGAGGAAGAACCA GTCTGAGTTGCCAAGTCGGATGAGGAAGCCAACTGCCAAATCAGCTATCAGGGGAAGTTCCTAACACCCTGG TAATCCTTTTTTGCGTAACACATATCCATTTAGTGATCCGATTAATGGCCGGGTCATCTATCCCCAAAATACA CCTTAGATAACCCGGTTATGTTTGTGAAGATTTCCTGGGACTCAAGACAAAATCCTTTGATAACCCTTTAGAA TCACCTCTTTTATCGGTCACGCGGCCAAGGGAACCCGGGTCTCCCAGGGTCTCTCCCATCCCCGGGCCCCCGAG GGGGCGGGGGGGTGTTGCTAGGCGACCACGCTCTCCGCCCAGACCGGCCTACTTCTTCCGCAGGGGGCG CCATGGGCCGAGCCCAGGCTCGCGGGCCTCCCGGATCGCCCTTTTCCGACTTCTTCCCCTCTCCCGGGCGGT EGCGCACGCCGTGACGTCACAGGACGCGGGGCCAGCGCGGCTGCCGGGTGCCGGAGGCCCCATTGGAGCCGG CTTGGCTTGGGAGCCGTAGCTGAAGAGTTGGATC

Various transcription factor binding sites:
MZF1

AML-1A

Sp1

E47

MyoD

FIGURE 3B

C2C12- Mouse Mighty Clone Proliferation Assay
72 hrs Proliferation

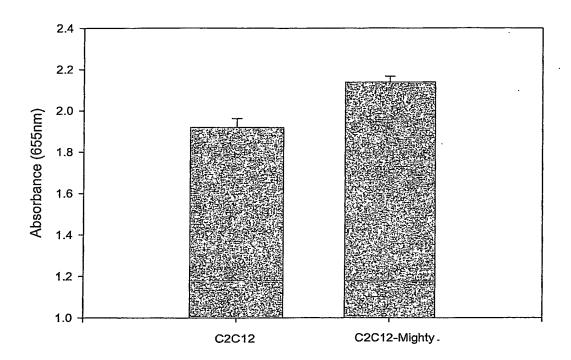
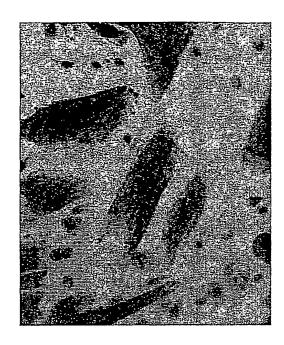
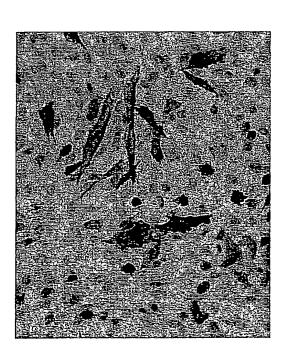


FIGURE 4

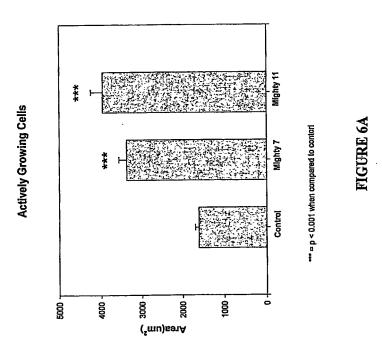


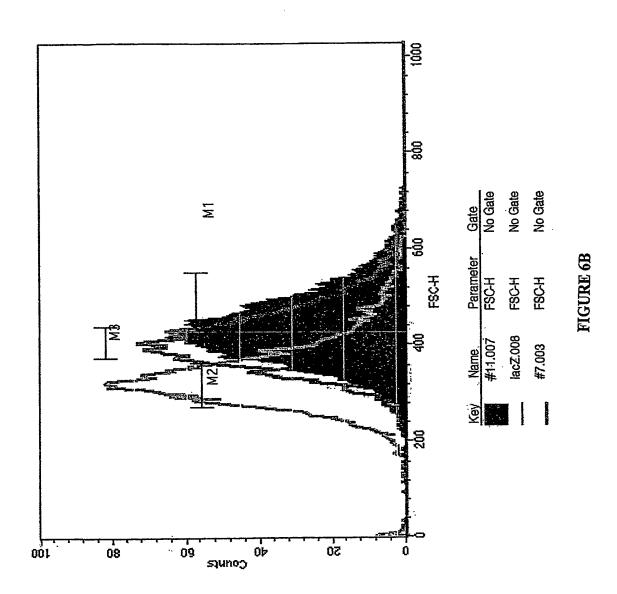
Mighty over expressing C2 Myotubes

FIGURE 5



Control C2 Myotubes





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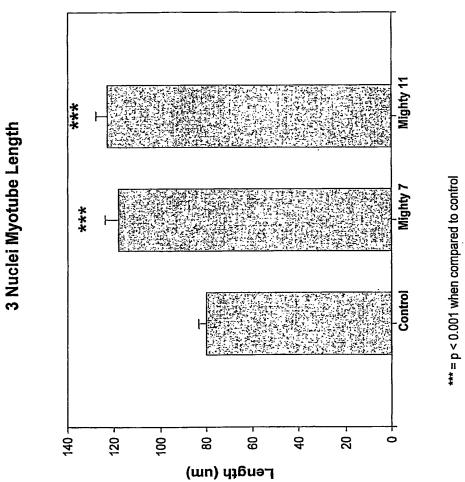
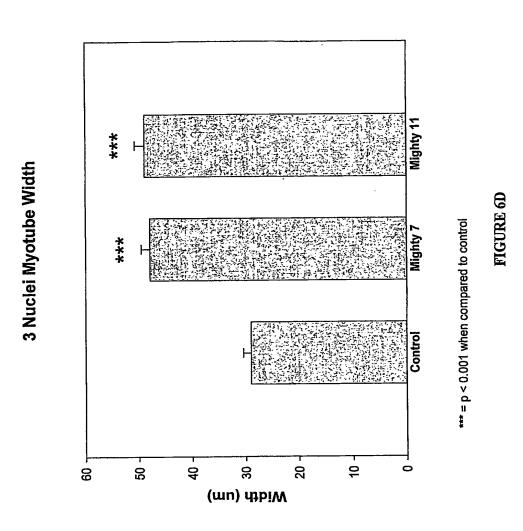
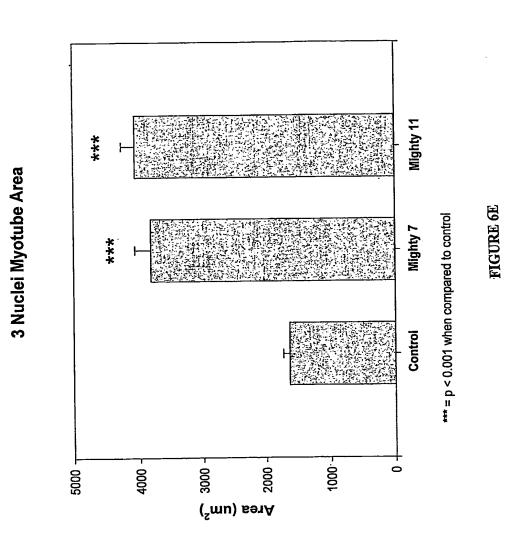


FIGURE 6C

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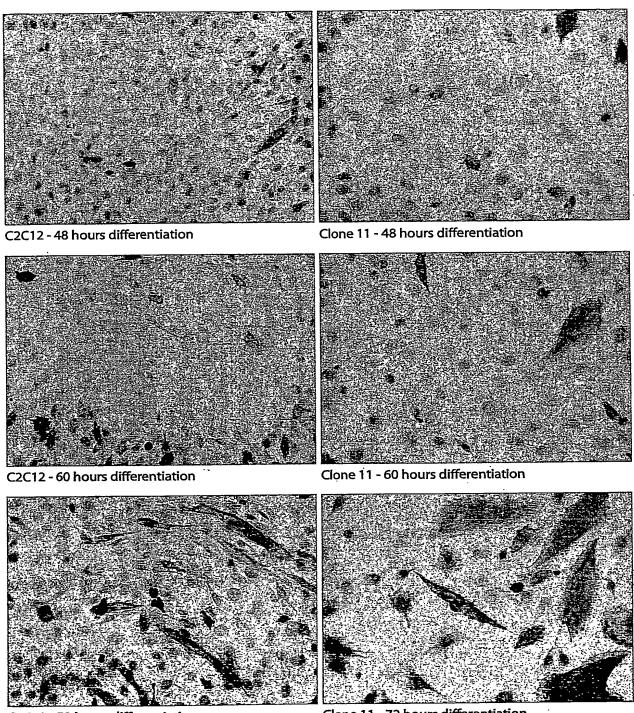


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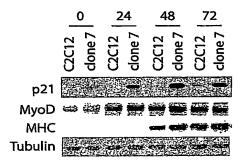


C2C12 - 72 hours differentiation

Clone 11 - 72 hours differentiation

FIGURE 7A

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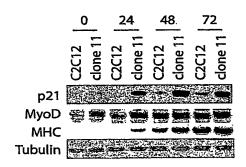


FIGURE 7B

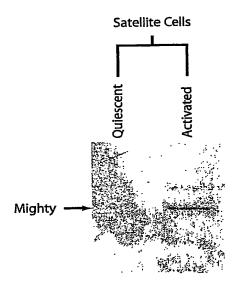


FIGURE 8

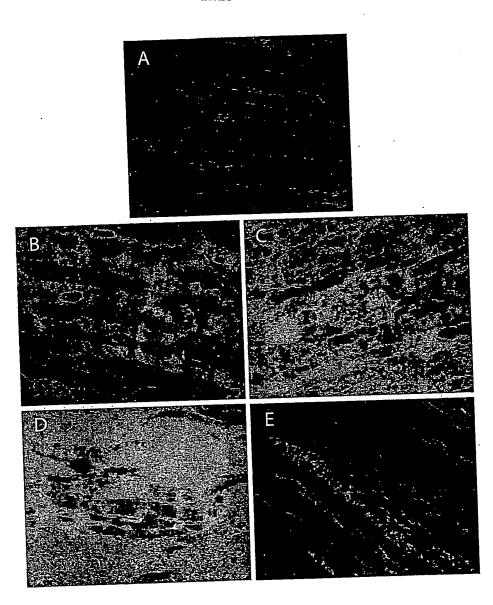


FIGURE 9



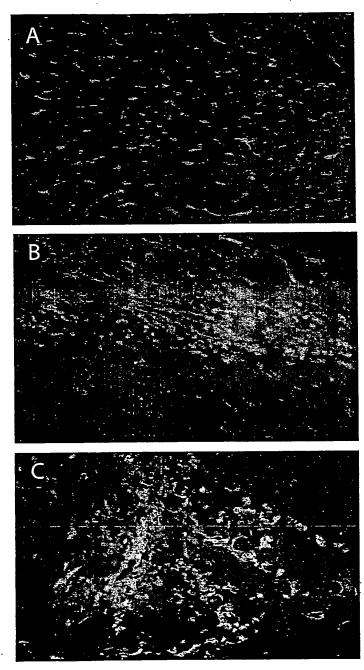


FIGURE 10

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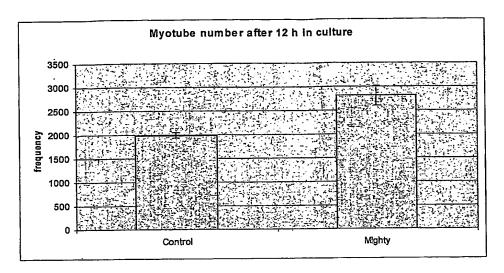


FIGURE 11



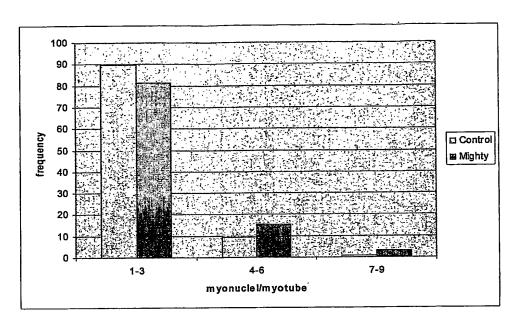


FIGURE 12A

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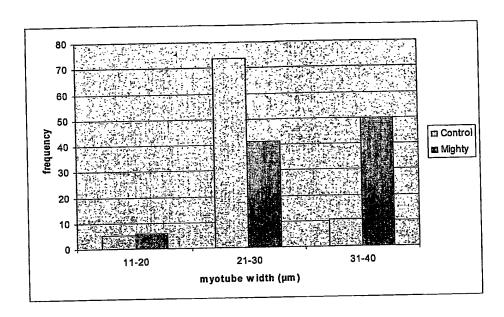
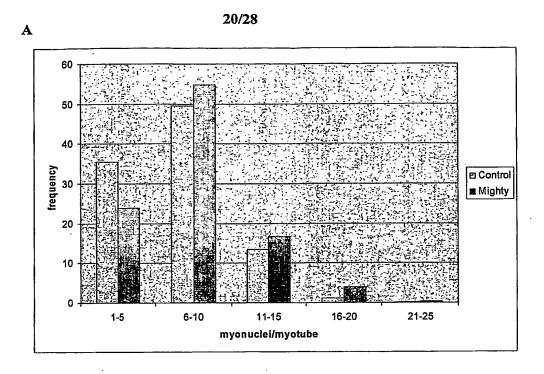


FIGURE 12B





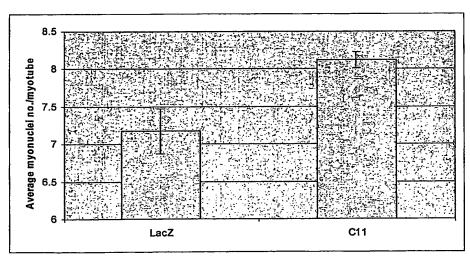


FIGURE 13

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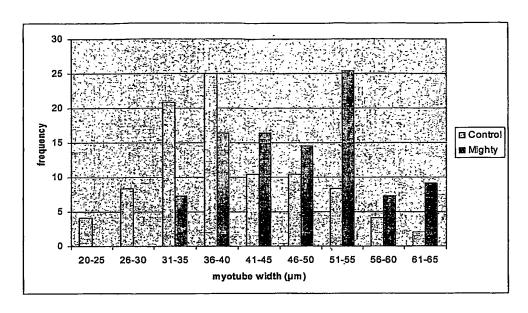


FIGURE 14



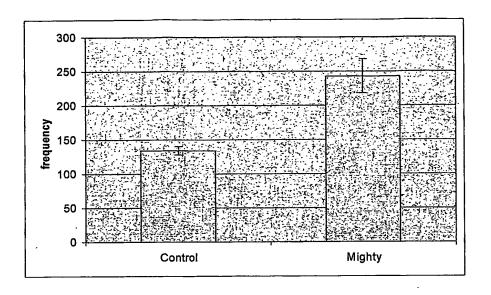


FIGURE 15

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Luciferase Activity of the 1kb mighty promoter in different cell lines

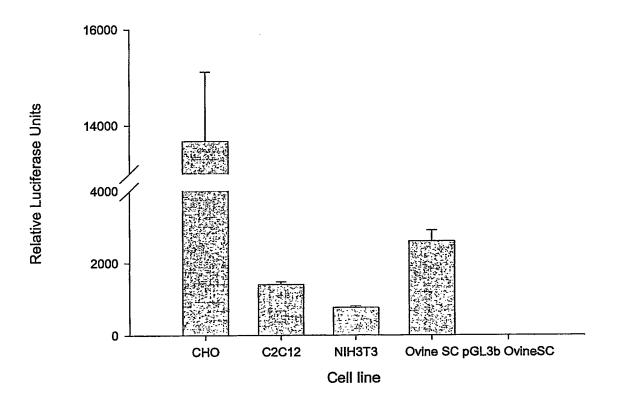


FIGURE 16A

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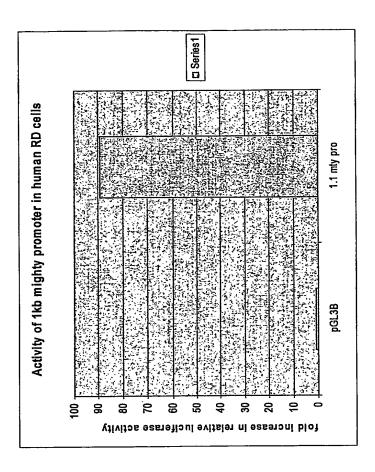


FIGURE 16B

Luciferase Activity of the 1kb mighty promoter in response to increasing myostatin concentrations

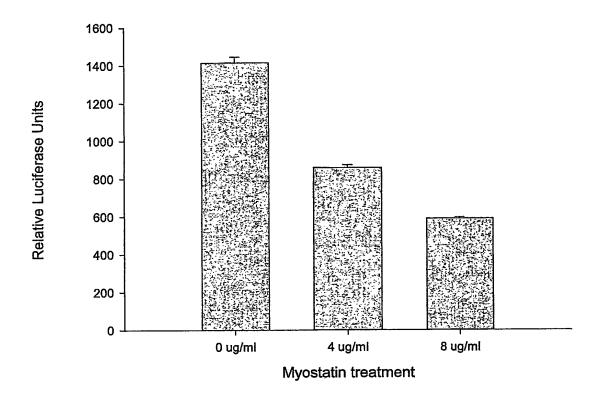


FIGURE 17

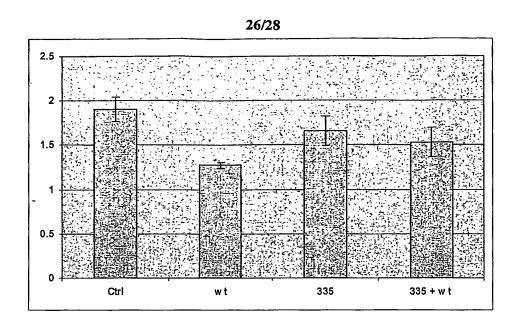
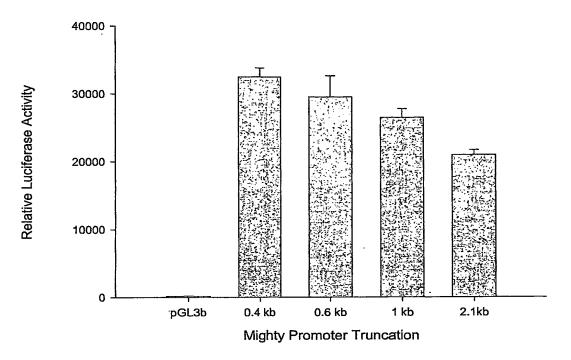


FIGURE 18

A Mighty Promoter Truncations Normalised to beta-Gal Activity



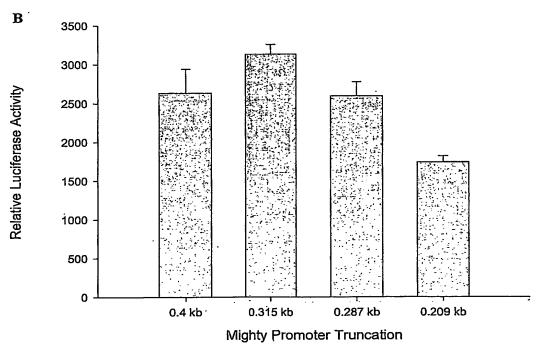


FIGURE 19



FIGURE 20

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